

TECHNICAL DIRECTION
EPA Contract #EP-C-08-004
EPA Task Order #112

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October 11, 2012

West Virginia Ionic Stress TMDL Development

Task 1.2: Draft TMDL Development

The purpose of this technical direction is to provide a more detailed description of EPA's expectations for Task 1.2 in the scope of work. Task 1.2 requires the development of Draft TMDL reports for ionic stress impairments in the Upper Kanawha and Monongahela River watersheds. As part of this task, the contractor will provide the following deliverables:

1. **TMDL Endpoint Development Document**
This document will provide a detailed overview of the data and technical analysis that were used to identify TDS water quality endpoints for the Upper Kanawha River and Monongahela River TMDLs.
2. **MDAS Model Technical Memorandum**
This memorandum will provide a detailed overview of the MDAS model that will be used to develop the Upper Kanawha River and Monongahela River TMDLs.
3. **Workgroup Meeting Documentation**
This documentation will include agendas, presentations and correspondence for the following workgroups:
 - a. TMDL Planning Group
 - b. Modeling Group
 - c. Endpoint Development Group
 - d. Treatment Technology Group
4. **Upper Kanawha Watershed Draft TMDL Documents**
These documents will take on a format similar to that used in West Virginia DEP TMDL reports, and will include:
 - a. Overview of TMDL Process
 - b. Overview of Applicable Water Quality Standards
 - c. Watershed Description (Location, Geography, Landuse, etc...)
 - d. Data Inventory (Physiographic data, Monitoring Data, Regulatory/Policy info, etc...)
 - e. Identification of Impaired Waterbodies
 - f. Source Assessment (Overview and Inventory of Point and Nonpoint Sources)
 - g. Modeling document (Explanation of model and procedures used for calibration)
 - h. Water quality calibration and baseline output files
5. **Monongahela Watershed Draft TMDL Documents**
These documents will take on a format similar to that used in West Virginia DEP TMDL reports, and will include:
 - a. Overview of TMDL Process
 - b. Overview of Applicable Water Quality Standards

- c. Watershed Description (Location, Geography, Landuse, etc...)
- d. Data Inventory (Physiographic data, Monitoring Data, Regulatory/Policy info, etc...)
- e. Identification of Impaired Waterbodies
- f. Source Assessment (Overview and Inventory of Point and Nonpoint Sources)
- g. Modeling document (Explanation of model and procedures used for calibration)
- h. Water quality calibration and baseline output files